1. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(6, -9) \text{ and } (4, 3)$$

A. $m \in [-6, -2]$ $b \in [-16, -9]$

B. $m \in [-6, -2]$ $b \in [-2, 1]$

C. $m \in [-6, -2]$ $b \in [-29, -22]$

D. $m \in [-6, -2]$ $b \in [24, 31]$

E. $m \in [2, 10]$ $b \in [-25, -20]$

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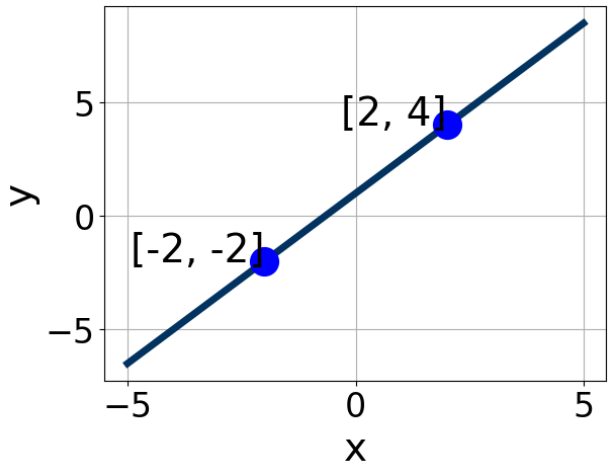
2. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [2.84, 4.64]$, $B \in [-2.32, -1.44]$, and $C \in [-2.02, -1.52]$

B. $A \in [-4.01, -2.79]$, $B \in [1.7, 2.01]$, and $C \in [1.22, 3.88]$

C. $A \in [2.84, 4.64]$, $B \in [1.7, 2.01]$, and $C \in [1.22, 3.88]$

D. $A \in [-2.92, -1.26]$, $B \in [0.95, 1.02]$, and $C \in [0.78, 1.69]$

E. $A \in [-2.92, -1.26]$, $B \in [-1.83, -0.44]$, and $C \in [-1.05, -0.64]$

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3. Solve the equation below. Then, choose the interval that contains the solution.

$$-10(12x + 9) = -18(-19x + 17)$$

A. $x \in [-1.03, -0.42]$

B. $x \in [0.43, 0.78]$

C. $x \in [1.1, 2.23]$

D. $x \in [0.6, 1.61]$

E. There are no real solutions.

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4. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(11, -5) \text{ and } (-3, 11)$$

A. $m \in [0.14, 4.14]$ $b \in [14.22, 14.87]$

B. $m \in [-3.14, 0.86]$ $b \in [-16.3, -15.83]$

C. $m \in [-3.14, 0.86]$ $b \in [13.94, 14.32]$

D. $m \in [-3.14, 0.86]$ $b \in [-7.96, -7.54]$

E. $m \in [-3.14, 0.86]$ $b \in [7.19, 8.06]$

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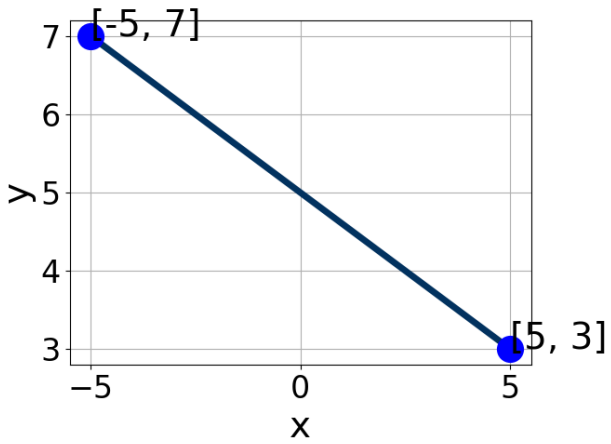
5. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-1.7, 0.9]$, $B \in [-2.32, -0.17]$, and $C \in [-7, -3]$

B. $A \in [1.6, 3.1]$, $B \in [-7.51, -4.95]$, and $C \in [-29, -23]$

C. $A \in [-1.7, 0.9]$, $B \in [0.43, 2.07]$, and $C \in [1, 12]$

D. $A \in [1.6, 3.1]$, $B \in [4.1, 5.67]$, and $C \in [24, 31]$

E. $A \in [-2.6, 0.2]$, $B \in [-7.51, -4.95]$, and $C \in [-29, -23]$

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6. Solve the equation below. Then, choose the interval that contains the solution.

$$-12(11x - 16) = -8(-14x - 6)$$

A. $x \in [-0.09, 0.98]$

B. $x \in [0.87, 0.99]$

C. $x \in [11.94, 12.19]$

D. $x \in [-1.3, -0.55]$

E. There are no real solutions.

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7. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{4x + 5}{5} - \frac{-3x - 8}{2} = \frac{-7x + 3}{8}$$

A. $x \in [-0.38, 0.07]$

B. $x \in [-4.29, -2.18]$

C. $x \in [-2.82, -1.42]$

D. $x \in [0.98, 1.57]$

E. There are no real solutions.

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8. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Perpendicular to $8x - 9y = 9$ and passing through the point $(-9, 4)$.

A. $m \in [-1.33, -0.98]$ $b \in [5.49, 6.27]$

B. $m \in [-0.99, -0.73]$ $b \in [-6.39, -4.95]$

C. $m \in [-1.33, -0.98]$ $b \in [12.5, 13.4]$

D. $m \in [0.85, 1.49]$ $b \in [13.67, 14.79]$

E. $m \in [-1.33, -0.98]$ $b \in [-6.39, -4.95]$

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9. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{4x + 5}{7} - \frac{8x + 7}{5} = \frac{-3x + 6}{4}$$

A. $x \in [-3.19, -1.19]$

B. $x \in [1.21, 3.21]$

C. $x \in [-9.85, -4.85]$

D. $x \in [-30.72, -27.72]$

E. There are no real solutions.

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10. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $8x - 9y = 15$ and passing through the point $(4, 9)$.

A. $m \in [0.72, 0.92]$ $b \in [-8.4, -4]$

B. $m \in [1.09, 1.37]$ $b \in [5.2, 5.7]$

C. $m \in [0.72, 0.92]$ $b \in [5.2, 5.7]$

D. $m \in [-0.94, -0.66]$ $b \in [11.2, 13.6]$

E. $m \in [0.72, 0.92]$ $b \in [2.2, 5.3]$